

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-320458

(43)Date of publication of application : 04.12.1998

(51)Int.Cl.

G06F 17/60

(21)Application number : 09-131906

(71)Applicant : HITACHI LTD

(22)Date of filing : 22.05.1997

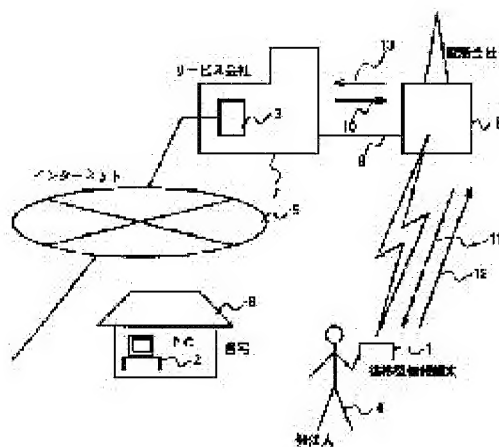
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KONDO NOBUKAZU

(54) PORTABLE INFORMATION TERMINAL SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To prevent an unfair trade request or the like from someone other than an orderer before a formal contract by receiving the trade contents sent from a service company for the sake of confirmation and sending specified information on approval and non-approval.

SOLUTION: In the case of ordering a product on an internet, an orderer 4 uses his own personal computer 2 at home 6 and orders a temporary product to a service company 7 by way of the internet. The service company 7, which received the order at their own computer 3, does not conclude a contract at this point but uses a telephone line and sends trade confirmation contents to the orderer 4. The route at this time is from a route 10 to a route 11 by way of a telephone company 8. The trade confirmation contents are received by a portable information terminal 1 and are displayed on a display panel 21. The orderer 4 uses an input button to specify that the received trade contents are approved when the contents are without errors and inform the service company of his intention.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

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CLAIMS

[Claim(s)]

[Claim 1] In the personal digital assistant which has a bidirectional radio means, it is related with the contents of dealings for which the owner of a personal digital assistant made demands on the service firm using another means of communications. A means to receive the contents of dealings transmitted from this service firm for the check, and to display it, The personal digital assistant system characterized by having the user interface which specifies the license and disapproval over the contents, and a means to transmit again the information on the specified license and disapproval to a service firm.

[Claim 2] The personal digital assistant system characterized by establishing a means to encipher decryption of receiving contents, and transmitting contents in the personal digital assistant of claim 1.

[Claim 3] The personal digital assistant system which realizes high security using this personal digital assistant by transmitting the last license and disapproval of dealings to a service firm as a result of the owner of the personal digital assistant of claim 1 receiving the contents transmitted for this service firm to the check of the contents of dealings required of the service firm using another means of communications, such as the Internet, with a personal digital assistant and checking the contents.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the improvement technique in dependability of a commercial transaction in which computer networks, such as the Internet, were used.

[0002]

[Description of the Prior Art] The means of a service firm transmitting again and checking the electronic mail for a contents check to dealings demand-origin, as a means for raising the dependability in the commercial transaction using computer networks, such as the Internet, conventionally, is common.

[0003]

[Problem(s) to be Solved by the Invention] In a Prior art, it is mischievous and the trouble of a child ordering an article using the personal computer at a home occurs.

[0004] In the commercial transaction by the Internet etc., before the last sanction is performed, the purpose of this invention is providing the person concerned with dealings who has decisive power with a means checking the contents, and is to realize a safe electronic commerce system.

[0005]

[Means for Solving the Problem] In this invention, in order to solve the above-mentioned purpose, using the personal digital assistant which has a bidirectional radio means, the contents of dealings required of the service firm using means of communications, such as the Internet, from the requiring agency are again transmitted to a claimant using another means of communications for a check from a service firm, and the means which a claimant can check is established.

[0006]

[Embodiment of the Invention] The personal digital assistant which has a bidirectional radio means receives what was transmitted from the service firm for the check about the contents of dealings required of the service firm using the Internet etc., and displays it. And as a result of checking the contents, the claimant of dealings specifies the license and disapproval over the contents using the user interface of a personal digital assistant, and transmits to a service firm again. thereby -- the claimant of dealings -- him -- the unfair-dealings demand from except etc. can be prevented before a formal contract. Furthermore, since the mistake of the contents by a communicative defect etc. can also be checked, reliable electronic commerce becomes possible.

[0007] One example of this invention is explained using drawing 3 from drawing 1 . It is the flow chart with which the conceptual diagram in which drawing 1 shows the service arrangement of one example of this invention, and drawing 2 show the external view of the personal digital assistant of this invention, and drawing 3 shows the service procedure of this invention.

[0008] In drawing 1 , the personal computer which 1 has in a personal digital assistant and 2 has in a home, the computer of the mail order service firm where 3 receives an order by the Internet, the order people whom 4 orders a mail order from a home with a personal computer, the mail order service firm where the Internet circuit and 6 receive order people's house by the Internet, and, as for 7, 5 receives an order, and 8 express the telephone company, and, as for 9, the telephone line and the arrow head of 10-13 express the direction of communicative.

[0009] In drawing 2 , the input carbon button which specifies that 21 approves a liquid crystal display panel and the contents of dealings which 22 received, the input carbon button which specifies what 23 cancels the received contents of dealings for (it does not approve), and 24 and 25 are the carbon buttons for scrolling of a display panel.

[0010] In drawing 3 The temporary order process of the goods in the Internet course [31], The process to

which a service firm sends the contents of a check to order people about the order which 32 received by the telephone line, The process in which, as for 33, order people receive the contents of a check from a service firm with a personal digital assistant, The process in which 34 checks the contents of a check in which order people were seen off from the service firm with the personal digital assistant, As for the process which connects that to a service firm, and 36, a contract is concluded in a forward type using the input carbon button which specifies that 35 approves the received contents of dealings. The process which a service firm reports to a service firm that that is using the process by which formalities of goods dispatch etc. are started, and the input carbon button which specifies what 37 cancels the received contents of dealings for (it does not approve), and 38 are processes in which a service firm cancels order.

[0011] First, the case where the Internet orders goods is considered. The order people 4 order temporary goods from a house 6 via the Internet to the service firm 7 using their own personal computer 2. The service firm 7 which received the order by computer 3 of its company does not conclude a formal contract at this time, and transmits the contents of a dealings check to the order people 4 using the telephone line. The path at that time turns into a path 11 from a path 10 via the telephone company 8. It is received by the personal digital assistant 1 and the contents of a dealings check are displayed on a display panel 21. If the order people 4 are correct by the contents, they will connect that to a service firm using the input carbon button 22 which specifies approving the received contents of dealings. The path at that time turns into a path 13 from a path 12 via the telephone company 8.

[0012] On the other hand, when there is no memory which has a mistake in the contents and which was case [a memory] or ordered, the order people 4 tell that to a service firm using the input carbon button 23 which specifies what the received contents of dealings are canceled for (it does not approve). If a flow chart shows these procedure of a series of, it will become like drawing 3 . It is effective in dealings of them being manageable, wherever it can check it and may be in, even when others order an article even if, using the personal computer of a house unjustly if the personal digital assistant 1 is carried even when order people stay away from a house for a long period of time according to this method.

[0013] Although this example explained the example of the mail order which used the Internet, it is applicable to all the commercial transactions of a bank or others. Moreover, the safety of a system can be further improved by enciphering the data in the communication link of the check to order people from a service firm, and the communication link of the communication of the license and disapproval of dealings from order people in a service firm.

[0014]

[Effect of the Invention] according to this invention -- the claimant of dealings -- him -- the unfair-dealings demand from except etc. can be prevented before a formal contract. On the other hand, since the mistake of the contents by a communicative defect etc. can also be checked, reliable electronic commerce becomes possible. Furthermore, if the personal digital assistant is carried even when order people stay away from office or a house for a long period of time, even if others order an article unjustly by their own computer, it will it-check and will be effective in dealings of them being always manageable. Moreover, the method of this invention is applicable to dealings of the banks and others which used the Internet etc.

[Translation done.]

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TECHNICAL FIELD

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PRIOR ART

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EFFECT OF THE INVENTION

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] In a Prior art, it is mischievous and the trouble of a child ordering an article using the personal computer at a home occurs.

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MEANS

[Means for Solving the Problem] In this invention, in order to solve the above-mentioned purpose, using the personal digital assistant which has a bidirectional radio means, the contents of dealings required of the service firm using means of communications, such as the Internet, from the requiring agency are again transmitted to a claimant using another means of communications for a check from a service firm, and the means which a claimant can check is established.

[0006]

[Embodiment of the Invention] The personal digital assistant which has a bidirectional radio means receives what was transmitted from the service firm for the check about the contents of dealings required of the service firm using the Internet etc., and displays it. And as a result of checking the contents, the claimant of dealings specifies the license and disapproval over the contents using the user interface of a personal digital assistant, and transmits to a service firm again. thereby -- the claimant of dealings -- him -- the unfair-dealings demand from except etc. can be prevented before a formal contract. Furthermore, since the mistake of the contents by a communicative defect etc. can also be checked, reliable electronic commerce becomes possible.

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[0013] Although this example explained the example of the mail order which used the Internet, it is applicable to all the commercial transactions of a bank or others. Moreover, the safety of a system can be further improved by enciphering the data in the communication link of the check to order people from a service firm, and the communication link of the communication of the license and disapproval of dealings from order people in a service firm.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the conceptual diagram showing the service arrangement of one example of this invention.

[Drawing 2] It is the external view of the personal digital assistant of this invention.

[Drawing 3] It is the flow chart which shows the service procedure of this invention.

[Description of Notations]

1 [4 / -- Order people's house / 7 -- A mail order service firm, 8 -- telephone company, / -- Order people, 5 -- The Internet circuit 6] -- A personal digital assistant, 2 -- The personal computer, 3 at a home -- Computer of a mail order service firm 9 -- Telephone line 10-13 -- The direction of communicative, 21 -- Liquid crystal display panel, 22 -- Input carbon button 23 -- 24 An input carbon button, 25 -- The carbon button for scrolling of a display panel, 31 -- A temporary order process, 32 -- Process 33 [35 / 37 -- A process, 38 -- Process. / -- A process, 36 -- Process] -- A process, 34 -- Process

[Translation done.]

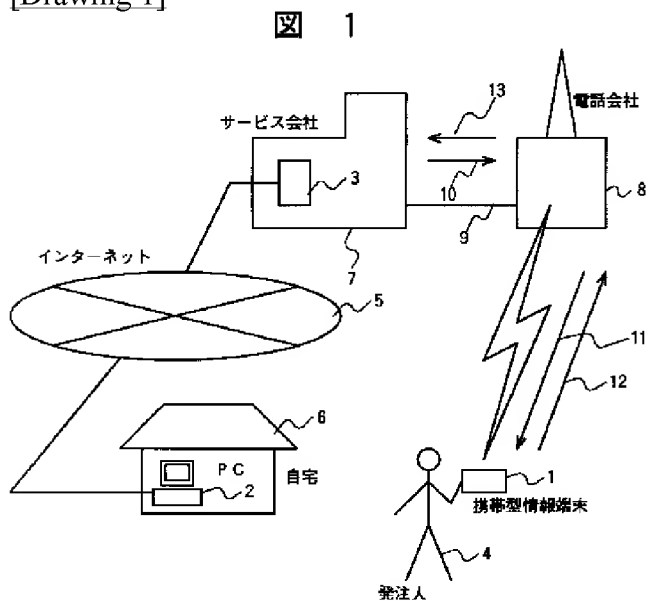
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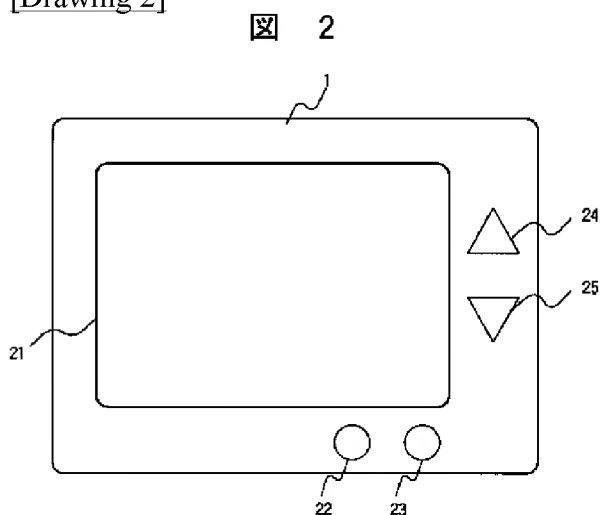
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DRAWINGS

[Drawing 1]

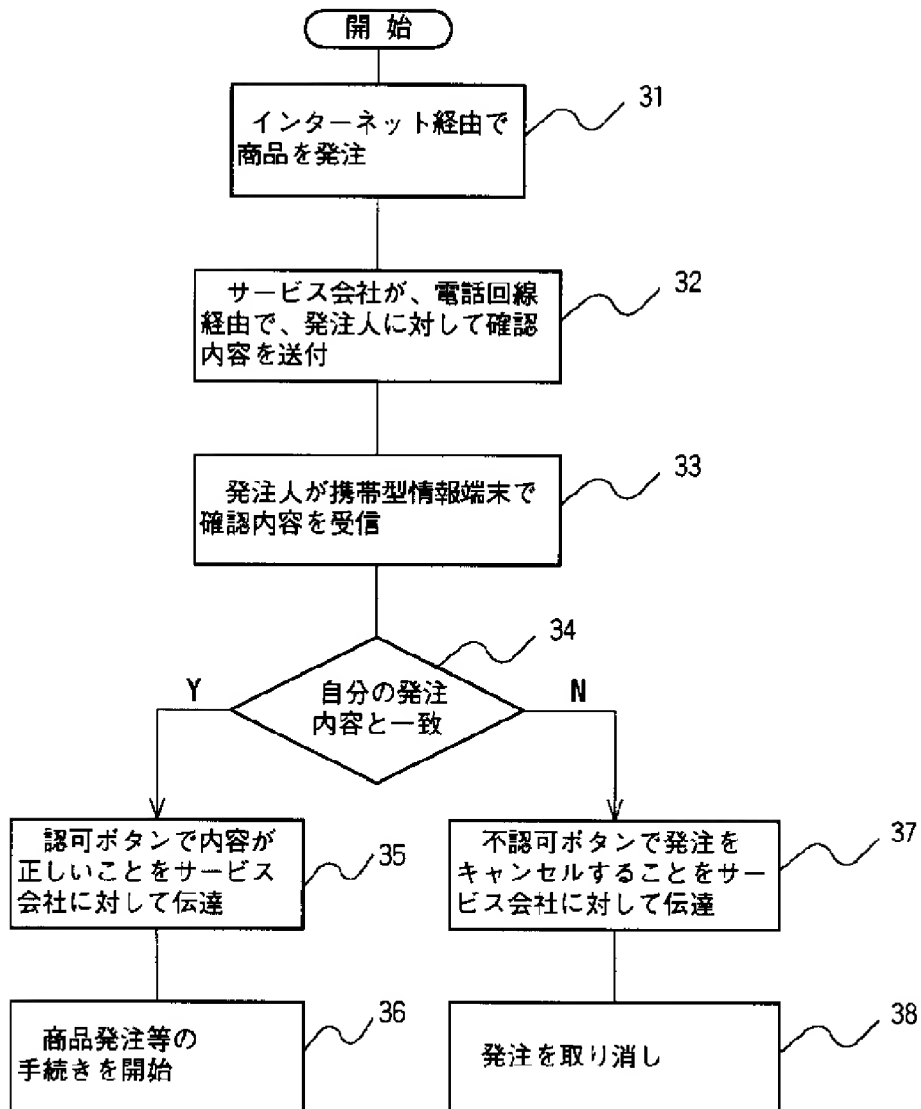


[Drawing 2]



[Drawing 3]

図 3



[Translation done.]

(19) 日本国特許庁 (J P)

(12) 公開特許公報 (A)

(11) 特許出願公開番号

特開平10-320458

(43) 公開日 平成10年(1998)12月4日

(51) Int. Cl.⁵

G 0 6 F 17/60

識別記号

P I

G 0 6 F 15/21

3 3 0

審査請求 未請求 請求項の数 3 O L (全 4 頁)

(21) 出願番号 特願平9-131906

(22) 出願日 平成9年(1997)5月22日

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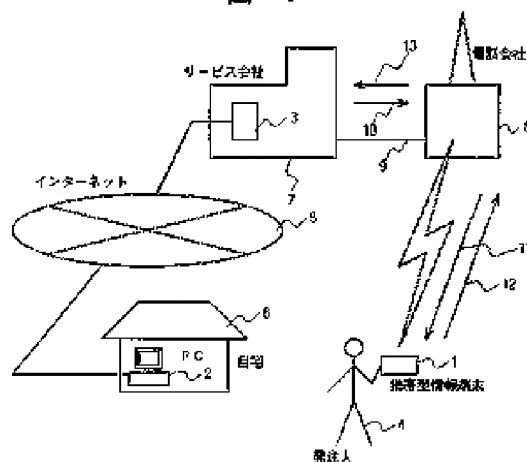
(54) 【発明の名称】 携帯型情報端末システム

(57) 【要約】

【課題】本発明の目的は、インターネット等による商取引において、最終決裁が行われる前に、決定権を有する取引当事者に内容を確認する手段を提供することで、安全なエレクトロニックコマースシステムを実現することにある。

【解決手段】双方向の無線通信手段を有する携帯型情報端末を用いて、要求元からインターネット等の通信手段を用いてサービス会社に要求された取引内容を、再びサービス会社から別の通信手段を用いて確認のために要求者に送信し、要求者が確認できる手段を設ける。

図 1



【特許請求の範囲】

【請求項1】双方向の無線通信手段を有する携帯型情報端末において、携帯型情報端末の所有者が別の通信手段を用いてサービス会社に要求した取引内容に関して、該サービス会社から確認のために送信された取引内容を受信し、それを表示する手段と、その内容に対する認可・不認可を指定するユーザインタフェースと、指定した認可・不認可の情報を再びサービス会社に送信する手段を有することを特徴とする携帯型情報端末システム。

【請求項2】請求項1の携帯型情報端末において、受信内容の略号解説、および送信内容を略号化する手段を設けたことを特徴とする携帯型情報端末システム。

【請求項3】請求項1の携帯型情報端末の所有者が、インターネット等の別の通信手段を用いてサービス会社に要求した取引内容を、該サービス会社から確認のために送信された内容を携帯型情報端末で受信し、その内容を確認した結果、該携帯型情報端末を用いて、取引の最終認可・不認可をサービス会社に伝達することで、高セキュリティを実現する携帯型情報端末システム。

【発明の詳細な説明】

【0001】

【発明の属する技術分野】本発明は、インターネット等のコンピュータネットワークを用いた商取引の信頼性向上技術に関する。

【0002】

【従来の技術】従来、インターネット等のコンピュータネットワークを用いた商取引における信頼性を向上させるための手段としては、サービス会社が、内容確認のための電子メールを、取引を要求元に対して再度送信し、確認するなどの手段が一時的である。

【0003】

【発明が解決しようとする課題】従来の技術では、いたずらで、子供が家庭にあるパソコンを用いて品物を注文してしまう等のトラブルが発生する。

【0004】本発明の目的は、インターネット等による商取引において、最終決裁が行われる前に、決定権を有する取引当事者に内容を確認する手段を提供すること、安全なエレクトロニックコマースシステムを実現することにある。

【0005】

【課題を解決するための手段】本発明では、上記目的を解決するため、双方向の無線通信手段を有する携帯型情報端末を用いて、要求元からインターネット等の通信手段を用いてサービス会社に要求された取引内容を、再びサービス会社から別の通信手段を用いて確認のために要求者に送信し、要求者が確認できる手段を設ける。

【0006】

【発明の実施の形態】双方向の無線通信手段を有する携帯型情報端末は、インターネット等を用いてサービス会社に要求された取引内容に関して、サービス会社から確

認のために送信されたものを受信し、それを表示する。そして、取引の要求者は、その内容を確認した結果、その内容に対する認可・不認可を携帯型情報端末のユーザインタフェースを用いて指定し、再びサービス会社に送信する。これにより、取引の要求者は、本人以外からの不正取引要求などを、正式な契約の前に防ぐことができる。さらに、通信の不良等による内容の間違いも確認できるため、信頼性の高い電子取引が可能になる。

【0007】本発明の一実施例を図1から図3を用いて説明する。図1は本発明の一実施例のサービス形態を示す概念図、図2は本発明の携帯型情報端末の外観図、図3は本発明のサービス手順を示すフローチャートである。

【0008】図1において、1は携帯型情報端末、2は家庭にあるパーソナルコンピュータ、3はインターネットによって注文を受け付ける通信販売サービス会社のコンピュータ、4はパーソナルコンピュータにより家庭から通信販売の注文を行う注文人、5はインターネット回線、6は注文人の自宅、7はインターネットによって注文を受け付ける通信販売サービス会社、8は電話会社、9は電話回線、10から13の矢印は通信の方向を表す。

【0009】図2において、21は液晶表示パネル、22は受信した取引内容を確認することを指定する入力ボタン、23は受信した取引内容を取り消す（認可しない）ことを指定する入力ボタン、24および25は表示パネルのスクロール用ボタンである。

【0010】図3において、31はインターネット経由での商品の仮発注プロセス、32は受けた発注について、サービス会社が電話回線で発注人に対して確認内容を送付するプロセス、33は発注人が携帯型情報端末でサービス会社からの確認内容を受信するプロセス、34は発注人が携帯型情報端末でサービス会社から送られた確認内容をチェックするプロセス、35は受信した取引内容を確認することを指定する入力ボタンを用いて、サービス会社に対してその旨を連絡するプロセス、36は正式に契約が成立して、サービス会社が商品発送等の諸手続が開始されるプロセス、37は受信した取引内容を取り消す（認可しない）ことを指定する入力ボタンを用いて、サービス会社に対してその旨を伝えるプロセス、38はサービス会社が発注を取り消すプロセスである。

【0011】まず、インターネットにより商品注文する場合を考える。注文人4は、自宅6から自分のパーソナルコンピュータ2を用いて、サービス会社7に対してインターネット経由で仮の商品の注文を行う。自社のコンピュータ3で注文を受け取ったサービス会社7は、この時点で正式な契約を成立させず、電話回線を用い、注文人4に対して、取引確認内容を送信する。そのときの経路は、経路10から電話会社8を経由して経路11となる。取引確認内容は、携帯型情報端末1により受信さ

れ、表示パネル21に表示される。注文人4は、その内容に間違いがなければ、受信した取引内容を認可することを指定する入力ボタン22を用いてサービス会社に対してその旨を連絡する。そのときの経路は、経路12から電話会社8を経由して経路13となる。

【0012】一方、もし内容に間違いがある場合、もしくは注文した覚えがない場合は、注文人4は受信した取引内容を取り消す（認可しない）ことを指定する入力ボタン23を用いてサービス会社に対してその旨を伝える。これらの一連の手続きをフローチャートで示すと図3のようになる。本方式によれば、注文人が長期間家を空けるような場合でも、携帯型情報端末1を携帯していれば、たとえ、他人が自宅のパーソナルコンピュータを不正に利用して品物を注文した場合でも、それをチェックすることができ、どこにいても、自分の取引を管理できるという効果がある。

【0013】本実施例では、インターネットを用いた通信販売の例を説明したが、銀行やその他のあらゆる商取引に応用できる。また、サービス会社から注文人への確認の通信、および注文人からサービス会社への取引の認可・不認可の連絡の通信におけるデータを暗号化することで、さらにシステムの安全性を向上することができる。

【0014】

【発明の効果】本発明によれば、取引の要求者は、本人以外からの不正取引要求などを、正式な契約の前に防ぐ*

ことができる。一方、通信の不良等による内容の間違いも確認できるため、信頼性の高い電子取引が可能になる。さらに、注文人が長期間オフィスや家を空けるような場合でも、携帯型情報端末を携帯していれば、たとえば他人が自分のコンピュータで不正に品物を注文しても、それチェックし、常に自分の取引を管理できるという効果がある。また、本発明の方式は、インターネットを用いた銀行やその他の取引等にも応用できる。

【図面の簡単な説明】

【図1】本発明の一実施例のサービス形態を示す概念図である。

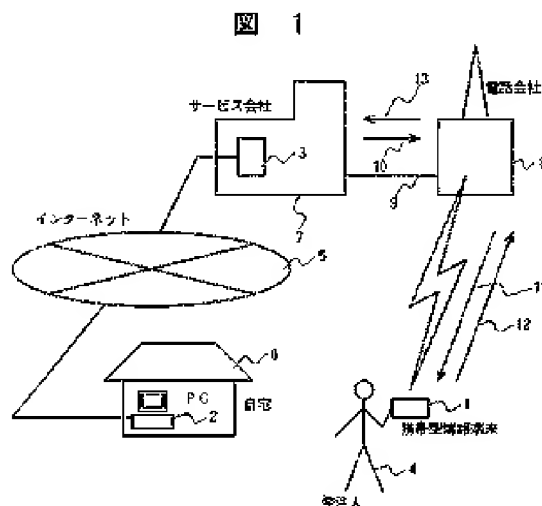
【図2】本発明の携帯型情報端末の外観図である。

【図3】本発明のサービス手順を示すフローチャートである。

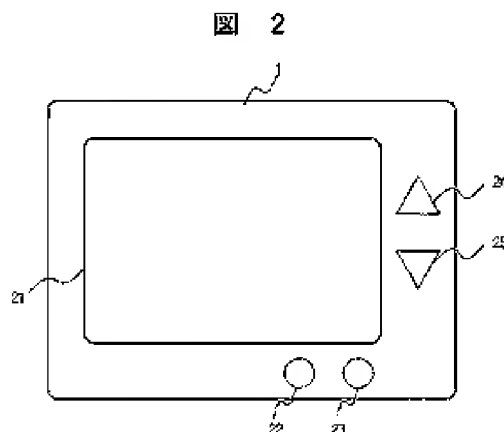
【符号の説明】

1…携帯型情報端末、2…家庭にあるパーソナルコンピュータ、3…通信販売サービス会社のコンピュータ、4…発注人、5…インターネット回線、6…発注人の自宅、7…通信販売サービス会社、8…電話会社、9…電話回線、10～13…通信の方向、21…液晶表示パネル、22…入力ボタン、23…入力ボタン、24、25…表示パネルのスクロール用ボタン、31…仮発注プロセス、32…プロセス、33…プロセス、34…プロセス、35…プロセス、36…プロセス、37…プロセス、38…プロセス。

【図1】



【図2】



【図3】

図 3

